M.R.O. 1—77,000—8-6-37.

(1) Number of pages 1 to 12

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 822 Press ~~Mis.~~

532-40

Dated 23. 3 1872.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
23rd March 1872.

Read the following papers :—

No. 532.	From the Superintending Engineer, 1st Division.				
	(Here enter No. ——, dated 18th January 1872.)				
No. 533.	Do.	do.	do.	1st	do.
	(Here enter No. 3,486, dated 12th February 1872.)				
No. 534.	Do.	do.	do.	2nd	do.
	(Here enter No. ——, dated 30th January 1872.)				
No. 535.	Do.	do.	do.	3rd	do.
	(Here enter No. ——, dated 25th January 1872.)				
No. 536.	Do.	do.	do.	4th	do.
	(Here enter No. 3,979, dated 6th January 1872.)				
No. 537.	Do.	do.	do.	5th	do.
	(Here enter No. 233, dated 27th January 1872.)				
No. 538.	Do.	do.	do.	6th	do.
	(Here enter No. ——, dated 1st February 1872.)				
No. 539.	Do.	do.	do.	8th	do.
	(Here enter No. ——, dated 24th February 1872.)				

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant for the quarter ended 31st December 1871.

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of Sanction.	Expenditure up to end of preceding official year.	Current year's Grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure.	Succinct account showing the state to which the works have been advanced up to date.
			RS.		RS.	RS.	RS.	RS.	RS.	
25	Godavery.	Extension of irrigation from Western Delta.	13,04,640	Government of India's No. 367-I., dated 2nd August 1871. G. O., No. 2,925, dated 18th November 1871.	1,61,633	2,96,804 G. O., No. 2,196, dated 28th August 1871.	6,010	36,674	1,98,307	*Nursapore Canal.* Peravelly Lock—weir finished. Itempoody Lock—almost finished and opened for traffic. Do.—Weir finished. Kontair channel improvement—nearly finished. *Bank Canal.* Deva under tunnel—finished. *Venkiah and Wyaru.* Chilakampadu escape—finished. *Restoring Navigation on the Wyaru.* Earth-work—about $\frac{3}{4}$ths finished. Double Lock—foundations being taken out. Mid level channel head sluice—finished except raising of rear wings. *Attily Canal.* Madugupolavarum under tunnel—finished except little coping. Rayacuduru tunnel—finished. *Other Drains.* Channel below Nursapore—Tidal sluice taken out. Old Rayacuduru channel—$\frac{7}{8}$ths finished. *Drain West of Nursapore Canal.* Earth-work—about $\frac{5}{8}$ths done. Bridge at 3 miles—finished. Do. at $4\frac{1}{2}$ miles—materials nearly all collected. Ten sluices built and part of channels for them excavated. *Ellore Canal.* Mid level channel—earth-work finished to Kasipirty tank.

										Do.— Masonry works about $\frac{5}{8}$ths done. Low-level channel—earth-work $\frac{7}{9}$ths done. Do.—Masonry works all finished except 6 village sluices. Pundicodu Drain—earth-work $\frac{15}{17}$ done. Do.—Masonry works finished. Drain for $7\frac{1}{2}$ miles Mid level channel escape—finished. " Drainage diversion"—commenced.
26	Do. ...	Extension of irrigation from Eastern Delta.	10,80,800	Government of India's No. 181-I., dated 20th May 1871. G O., No 1,523, dated 6th June 1871. G. O., No. 2,196, dated 28th August 1871.	1,60,976	2,00,000 3,196	21,177	40,233	2,01,209	*Thossipoody Lock.* Excavating foundations and filling in ... ... 1·00 Concrete ... ... 1·00 Rough stone-in-chunam ... 0·97 Cut-stone coping and flooring. 0·85 Brick-in-chunam ... ... 1·00 Cut-stone quoins ... ... 1·00 Rough stone apron ... 0·56 *Chintapilly Lock.* Excavating foundations and filling in ... ... 1·00 Concrete ... ... 1·00 Rough stone-in-chunam ... 0·90 Cut-stone quoins ... ... 0·85 Do. coping and flooring... 0·75 Rough stone apron ... 0·72 Brick-in-chunam ... ... 0·95 *Covoor.* Excavating foundations and filling in ... ... 1·00 Concrete ... ... 0·98 Rough stone-in-chunam ... 0·25 Cut-stone coping and flooring. 0·20 *Raising Banks on Cocanada Canal.* Earth-work ... ... 0·43
27	Kistna ...	Enlargement, extension, and improvement of the channels in the Masulipatam section of the Kistna Delta.	1,83,100	G. O., No. 80, dated 7th Jan. 1870; Govt. of India's Register No. 7-A.-I. of 1868-69.	1,24,325	40,000	484	16,888	1,41,213	Masulipatam canal from 1st to 4th mile ... ... 0·55 Do. from 4th to $12\frac{1}{2}$ miles ... 0·65 Pullair from Kankipad to the head of Polrazukodu ... 0·96 Masonry works ... ... 1·0
...	Do. ...	Irrigation channel on the west side of Masulipatam canal from 13th mile to Aukumurru.	49,860	G. O., No. 3,342, dated 19th Oct. 1866; Govt. of India's letter No. 132-A.-I., dated 1st Sept. 1868.	45,799	4,053 G. O., No. 1,384, 19th May 1871.	662	1,594	47,393	Earth-work ... ... 0·8 Head sluice ... ... 0·25

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant, etc.—(Continued.)

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of Sanction.	Expenditure up to end of preceding official year.	Current year's Grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure.	Succinct account showing the state to which the works have been advanced up to date.
			RS.		RS.	RS.	RS.	RS.	RS.	
28	Kistna ...	Widening the head of Masulipatam canal for 1,000 yards from the anicut to the head of Ellore branch.	1,18,530	G. O., No. 1,389, 20th May 1871; Govt. of India's No. 130-I., 24th April 1871.	21,824	25,000	1,359	5,153	26,977	Earth-work ... ... 0·4 Head sluice ... ... 0·5
29	Do. ...	Sloping down the banks of the main canal from the southern flank of the anicut, and enlarging the head of main canal from Seetanagaram to Doogeralla.	2,76,400	G. O., No. 2,358, dated 15th Dec. 1865; G. O., No. 2,382, dated 24th Dec. 1861; G. O., No. 1,376, dated 19th June 1862; Govt. of India's Register No. 7-A.-I. of 1868-69.	2,13,948	25,000	37	4,591	2,18,539	Earth-work ... ... 1·08
30	Do. ...	Enlargement and improvement of Ryves' channel and its branches, and construction of the masonry works.	4,14,193	G. O., No. 80, dated 7th Jan. 1870; Govt. of India's Register No. 7-A.-I. of 1868-69.	1,21,846	50,000	12,709	19,457	1,41,303	Head sluice and bridge ... 0·99 Head of channel ... ... 0·49 Enlarging and improving Ryves' channel ... ... 0·43 Do. do. branch channel ... 0·99 Masonry ... ... 0·0 Three accommodation bridges on branch channels ... 0·26
32	Do. ...	Extension of Commamore channel and construction of the necessary masonry works.	1,95,770	G. O., No. 3,699, dated 15th Dec. 1863; G. O., No. 1,310, dated 1st May 1867; Govt. of India's No. 132-A.-I., dated 1st Sept. 1868.	1,75,797	45,947 G. O., No. 1,384, 19th May 1871.	......	......	1,75,797	Masonry works ... ... 0·80 Earth-work ... ... 0·94 *Rapid at Doogeralla.* Earth-work ... ... 0·74 Revetment ... ... 0·6 Masonry ... ... 0·74
33	Nellore ...	Improvements to the Survapully channel.	4,20,060	G. O., No. 1,844, dated 20th June 1867; Govt. of India's Register No. 7-A.-I. of 1868-69.	2,55,802	1,00,000	6,606	67,405	3,23,207	*Main Reservoir.* Earth-work ... ... 0·07 Revetment ... ... 0·54 Turfing ... ... 0·88 Masonry works ... ... 1·13 *Channel South of Pennair.* Earth-work ... ... 0·74 Cutting laterite and gravel ... 0·80 Masonry works ... ... 0·97
38	South Arcot.	Anicut across the Vellaur river at Pelandorai.	1,98,285	G. O., No. 691, dated 3rd Mar. 1870; Govt. of India's No. 784., dated 9th Feb. 1870.	36,834	60,000 G. O., No. 2,762, 1st Nov. 1871.	4,298	17,904	54,738	Anicut ... ... ·12 Head sluice ... ... ·70 Main channel ... ... ·35

The anicut and sluice work have been stopped during the past quarter owing to constant freshes in the river and heavy rain. The channel work has been also at a stand still owing to heavy rain filling the cutting, and, being the cultivation season, the coolies fell off. All the contracts have expired also with the 31st December, and fresh Contractors, with fresh agreements, have to be obtained, or the work must be done departmentally. The breaches of Contract have been numerous, owing, it is supposed, to the profits of the top soil being greater than those of the lower strata; hence the disappearance of Contractors. The non-receipt of Instruments, Tools and Plant as indented for has also been a cause of delay to this as well as to others.

Very great stoppage.

The expenditure has been chiefly in collection of materials at site.

It is to be hoped that the work will now make rapid strides.

(Signed) J. M. HAWKSWORTH,
Assistant Engineer, No. 4 Range.

(Signed) J. VERTUE, Captain, R. E.,
Acting Superintending Engineer, 5th Division.

AMAPETTAH,
27th January 1872.

40	Tanjore ...	Regulating works for the improvement of the river Cauvery. Deduct amount to be charged to Local Funds, as per G. O., No. 118, dated 15th January 1869.	1,37,790 34,300 1,03,490	G. O., No. 775, dated 14th March 1867; G. O., No. 270, dated 24th Jan. 1868; G. O., No. 118, dated 15th Jan. 1869; Govt. of India's Register No. 7-A.-I. of 1868-69.	92,933	10,000 Deduct as per G. O., No. 147, 17th Jan. 1872 ... 2,607 7,393	......	......	92,933	All works connected with this project have been completed with the exception of the minor masonry works, estimated to cost Rupees 9,550, which have not yet been commenced.
...	Do. ...	Completing a front and rear retaining wall and apron along the south branch of the Lower Coleroon anicut.	70,400	G. O., No. 2,748, dated 21st Aug. 1869; Govt. of India's Register No. 8-E. of 1869-70	55,020	2,607 G. O., No. 147, 7th Jan. 1872.	......	148	55,168	Conveyance of rough stone from Trichinopoly in progress; all other works completed with the exception of the front retaining wall, which is not to be carried out.
41	Do. ...	Regulators for the principal branches of the Vennaur.	1,97,240	G. O., No. 1,144, dated 29th April 1870; G. O., No. 2,072, dated 29th August 1870; Govt. of India's No. 325-I., dated 9th August 1870.	28,170	1,00,000	11,811	61,465	89,635	*Dam across the Vennaur at the Vettaur Head.* Foundations for Vennaur sluices with wings and abutments almost completed. Foundations excavated for Vettaur sluices. *Dam across the Pamaniaur and Corayaur Heads.* Foundations of the Vennaur and Corayaur sluices raised six feet and plank shed completed. *Dam across the Pandavyaur Head.* Foundations completed; floors put down to half depth. The wings and nose-wall raised 8 feet above floor-level. Store-shed completed. *Dam across the Vellyaur Head.* Foundations completed; floors put down to half depth. The wings and nose-wall raised 8¼ feet above floor level. Store-shed nearly completed.

Statement showing the progress of Agricultural Works under execution from the Extraordinary Grant, etc.—(Concluded.)

Item of Budget.	District.	Name of Work.	Amount of Estimate.	Number and date of Sanction.	Expenditure up to end of preceding official year.	Current year's Grant.	Expenditure in current year. In the quarter.	Expenditure in current year. Up to the end of present quarter.	Total Expenditure.	Succinct account showing the state to which the works have been advanced up to date.
			RS.		RS.	RS.	RS.	RS.	RS.	
45	Tinnevelly	Streeviguntum anicut ...	8,31,600	G. O., No. 3,365, dated 26th Oct. 1868; Govt. of India's No. 53-I., dated 11th Feb. 1869.	5,54,898 Amount paid to the Collector for compensation of land ... 3,996 5,58,894	1,75,000	24,885	36,310	5,95,204	Anicut ... ... ·87 Head sluices ... ... ·75 Masonry works, north side ... ·50 Do. south side ... ·88 North tanks ... ... ·39 Do. channels ... ... ·35 South tanks ... ... ·90 Do. channels ... ... ·85

7

Proceedings of the Madras Government, Public Works Department, 23rd March 1872.

Statement showing the nature and progress of all preliminary surveys and inquiries under prosecution in connection with new Irrigation Projects intended to be carried out from Loan Funds.

District.	Name of Project.	Particulars of progress of investigations.
Ganjam ...	Rooshkoolia and Mahanuddy Project.	*Gullery Channel.* Surveyed and contoured 8 miles. Survey of Gullery river 1 mile. 5 Cross sections of Gullery river. *Bavancona Reservoir.* Surveyed and contoured 14½ miles. 1 Cross section across valley near sight of dam. 1 Longitudinal line of waste weir channel 4 miles. *Kookoolabah River.* Levels along the bed of river, 10½ miles. 1 Cross section at Tassingy. Do. do. at Bullisac. *Survey of Hills.* Surveyed and levelled around hills, 39¼ miles. Plans and estimates of Bavancona reservoir prepared; new set of plans and estimates for Mahanuddy and Rooshkoolia channels and Sooradah reservoir completed.
Do. ...	Vamsadara River or Chicacole Project.	Has been received from Captain Beckley, and is now under examination in the Superintending Engineer's Office.
Godavery ...	Central Delta Project	With Chief Engineer for Irrigation.
Do. ...	Unnamalunka do.	Will be submitted to Government by Superintending Engineer in a few days.
Kistna ...	Eastern Delta	Plan and estimate of Kykalur Division are nearly ready.
Do. ...	Western do.	Surveys and levels are completed. Plans and estimates for completion of irrigation and drainage system are under preparation.
Tinnevelly ...	Numbiar River Irrigation ...	80 per cent. survey work done. No progress since last report.
Do. ...	The improvement and extension of irrigation under the Tambrapoorny and its tributaries.	A Surveyor is now employed in completing the necessary levels, etc., and the scheme will be submitted shortly.
Madura ...	Perryaur Project	Project has been sent to the Chief Engineer for Irrigation, but the examination of sites lower down the valley is still going on and more favourable sites have been discovered than that originally proposed.

Proceedings of the Madras Government, Public Works Department,
23rd March 1872.

No. 540. ORDER THEREON, 23rd March 1872, No. 822.

ACCOUNT, No. 48.

ORDERED that the above statements be tabulated and forwarded to the Government of India.

(True Extract.)

(Signed) R. F. OAKES, Captain, R.E.,
Acting Joint Secretary to Government.

9 ✓

No. 822

Public Works Dept.

Proceedings of the Madras Government

Read the following papers.

From the Superintending Engr. 1st Dn. (H.E. No. — dated 18th Janry/72)

— " — " ——— " ——— " — 1st Dn. (H.E. No. 3486 — " — 12th Feb/72)

— " — " ——— " ——— " — 2nd Dn. (H.E. No. — dated 30th Janry/72)

— " — " ——— " ——— " — 3rd Dn. (H.E. No. — dated 25th Janry/72)

— " — " ——— " ——— " — 4th Dn. (H.E. No. 3979 dated 6th Janry/72)

— " — " ——— " ——— " — 5th Dn. (H.E. No. 233 dated 27th Janry/72)

— " — " ——— " ——— " — 6th Dn. (H.E. No. — dated 1st Feb/72)

— " — " ——— " ——— " — 8th Dn. (H.E. No. — dated 24th Feb/72)

Ordered that the above statements be tabulated and forwarded to the Government of India.

[illegible]

Despd. 26/3/72 with 10 spare copies

For approval

Govt. of {1872} Madras.

PUBLIC WORKS.

To

Dated

Recd. Encl.

G. O. 23rd March 1872, No. 822

Nos. 532 @ 540

Agricultural Works. Forwarding ~~the tabulated~~ statements showing the progress of Agri-cultural works under Execution from the Extraordinary Grant for the quarter ended 31st Decr/71.